

Figure 1A

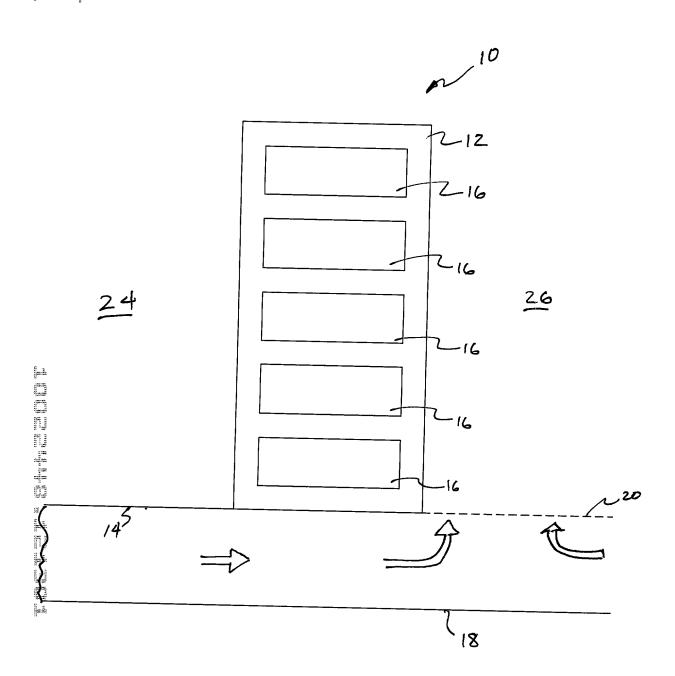


FIGURE 1B

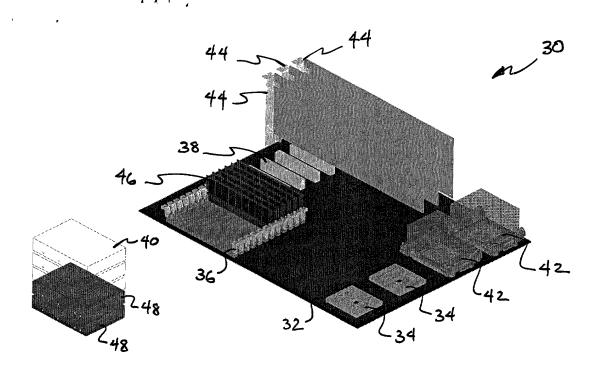


Figure 2A

Component	Actual Config.	Max Config.	De- rating factor	VR	Power Range Lower- Upper	Power Consumed
Processors (CPU)	2	4	0.8	0.85	(Watts) 30-60	$\frac{\text{(Watts)}}{(4 \times 60 \times 0.8)} = 225.9$
Memory	6	12	0.7	0.85	5-20	$\frac{0.85}{\frac{(12 \times 20 \times 0.7)}{0.85}} = 197.6$
I/O Adapters	3	8	0.5	1.0	5-20	$\frac{(8 \times 20 \times 0.5)}{} = 80$
Disk Drives	2	5	0.8	1.0	10-20	$\frac{1.0}{\frac{(5 \times 20 \times 0.8)}{1.0}} = 50$
					$P_{MAX} \rightarrow$	553.5W

Figure 2B

Component	Quantity	Power (Watts)	De-rating Factor	VR Efficiency	Subtotal
1	q_1	p_1	D_{I}	E_I	$q_1(\frac{p_1D_1}{E_1})$
÷	:	÷	:	:	:
j	q_{j}	p_j	D_j	E_{j}	$q_{j}(\frac{p_{j}D_{j}}{E_{j}})$
:	:	:	:	:	:
J	q_J	p_J	D_J	E_J	$q_{_J}(\frac{p_{_J}D_{_J}}{E_{_J}})$
				P _{CONFIG} →	$\sum_{j=1}^{J} q_{j} (\frac{p_{j} D_{j}}{E_{j}})$

Figure 3A

Component	Quantity	Power (Watts)	De-rating Factor	VR Efficiency	Subtotal (Watts)
Processors	2	40	0.8	0.85	75.3
Memory	6	10	0.7	0.85	49.4
I/O	3	10	0.5	1.0	15
Disk	2	15	0.8	1.0	24
				P _{CONFIG} →	163.7W

Figure 3B

-	Component	Quantity	Power (Watts)		VR Efficiency		ubtotal Watts)	
	1	q_1	p_I	D_I	E_{I}	$q_{_1}$	$(\frac{p_1D_1}{E_1})$	
	:	:	:	÷	÷		:	
	j	q_{j}	p_{j}	D_{j}	E_{j}	$q_{_J}$	$(\frac{p_{_{J}}D_{_{J}}}{E_{_{J}}})$	
	<i>j</i> +1	q_{j+1}	$P_{(MAX)j+1}$	D_{j+I}	E_{j+1}	$q_{_{J+1}}(rac{p_{_{(MAX)J+1}}D_{_{J+1}}}{E_{_{J+1}}})$		
	÷	:	:	÷	:	:		
the full that	J	q_J	$P_{(MAX)J}$	D_J	E_J	$q_{_J}(rac{p_{_{(MAX)_J}}D_{_J}}{E_{_J}})$		
1 10.15 16 16 16 16 16 16 16 16 16 16 16 16 16					P _{CONFIG} →	$\sum_{j=1}^{J} q_{j} \left(\frac{p_{j} D_{j}}{E_{j}} \right) +$	$\sum_{j=j+1}^{J} q_{j} \left(\frac{p_{(MAX)j} D_{j}}{E_{j}} \right)$	
The first of the f	Figure 4A							
	Component		ity	Power (Watts)	De-rating Factor	VR Efficiency	Subtotal (Watts)	
	CPU	2		40	0.8	0.85	75.3	
	Memory	6		20	0.7	0.85	98.8	
	I/O	3		20	0.5	1.0	30	
	Disk	2		20	0.8	1.0	32	
						P _{CONFIG} →	236.1W	

Figure 4B

=	Component	Quantity	Power (Watts)	De-rating Factor	VR Efficiency	Subtotal (Watts)		
	1	q_1	p_I	D_I	E_I	$q_1(\frac{p_1D_1}{E_1})$		
	:	÷	÷	:	:	:		
	j	q_{j}	p_{j}	D_{j}	E_{j}	$q_j(\frac{p_jD_j}{E_j})$		
	:	÷	:	÷	÷	÷		
_	J	q_J	p_J	D_J	E_J	$q_{_J}(\frac{p_{_J}D_{_J}}{E_{_J}})$		
. 1. 11 11 11 11 11 11 11 11 11 11 11 11					P _{CONFIG} →	$\beta \left[\sum_{j=1}^{J} q_{j} \left(\frac{p_{j} D_{j}}{E_{j}} \right) \right]$		
A HELLE AND ASSESSED OF THE SEASON STANDS IN THE SE		Figure 5A						
H. U.S. Gran, Br. Carle Hr. III.	Component	Quantity	Power (Watts)	De-rating Factor	VR Efficiency	Subtotal (Watts)		
lj.	CPU	2	40	0.8	0.85	75.3		
1 1	Memory	6	10	0.7	0.85	49.4		
	I/O	3	10	0.5	1.0	15		

Figure 5B

0.8

1.0

P_{CONFIG} →

24

180.1W

15

Disk

Note: β = 1.1

2

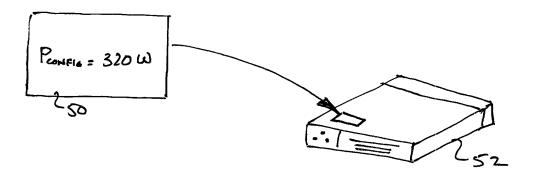
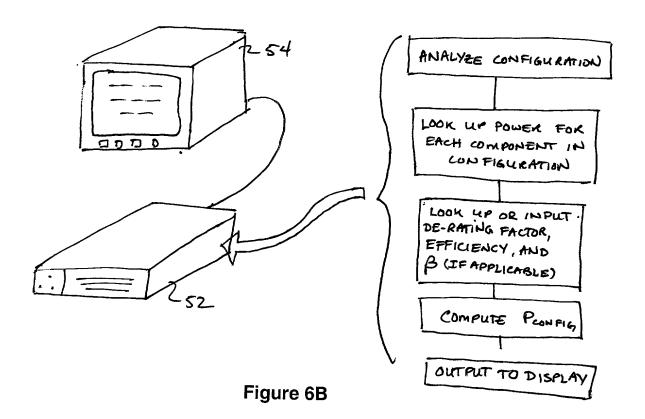


Figure 6A



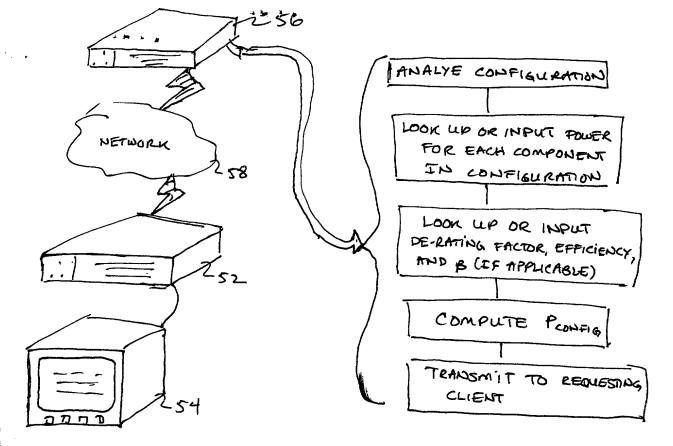


Figure 6C